

Title (en)
RETRACTION APPARATUS AND METHODS FOR ENDOSCOPIC SURGERY.

Title (de)
RETRAKTOR-VORRICHTUNG UND METHODEN FUER ENDOSKOPISCHE CHIRURGIE.

Title (fr)
APPAREILS ET PROCEDES D'ECARTEMENT POUR CHIRURGIE ENDOSCOPIQUE.

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EP 0637223 A1 19950208 (EN)

Application
EP 92913692 A 19920526

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Abstract (en)
[origin: EP0835639A2] A first inflatable retraction device has a first inflatable chamber (5) and a non-pressurized chamber (13) inside the main chamber. The non-pressurized chamber is expanded by inflating a second inflatable chamber (25). The non-pressurized chamber enables the main chamber to remain inflated when an aperture is cut in the envelope of the main chamber, through which treatment is carried out. A second inflatable retraction device has an inflatable retractor (103) and a maintainer (107). The inflatable retractor retracts the organ and the maintainer maintains the organ in its retracted condition after the inflatable retractor is deflated. The maintainer can be inflatable, and can be inside or outside the inflatable retractor. A self-retracting endoscope (201) has an optical assembly with an expandable retractor (211) fitted to its distal end. The distal end of the endoscope is inserted into the body with the retractor in a collapsed condition. The retractor is then expanded to retract organs that would otherwise obstruct the view from the distal end of the optical assembly. After observations are complete, the retractor is returned to its collapsed condition. An insertion tube (243) enables cylindrical objects, such as packaged inflatable retraction devices, to be pulled, instead of pushed, into the body. The additional chamber of an inflatable retraction device having two inflatable chambers is filled with a slurry of a particulate solid in a liquid. The liquid is removed and the additional chamber evacuated to consolidate the particulate solid. This increases the retracting strength of the additional chamber.
<IMAGE>

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